



**WESTCHESTER COUNTY
DEPARTMENT OF ENVIRONMENTAL FACILITIES**

**CAPACITY, MANAGEMENT, OPERATION AND
MAINTENANCE PROGRAM FOR SANITARY SEWERS**

APPENDIX A

UPDATED: NOVEMBER 2018

Westchester County Sewer System Maintenance Plan

APPENDIX

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APPENDIX A-1:
Key Supervisory Personnel

COMMISSIONER:

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270 North Avenue
New Rochelle, NY 10801
(914) 813-5450

DIRECTOR OF MAINTENANCE:

Michael J. Facelle, P.E
270 North Avenue
New Rochelle, NY 10801
(914) 813-5449

SUPERTINENDENT OF MAINTENANCE (COLLECTION SYSTEMS)

Russell Sorrentino
c/o New Rochelle WWTP
1 LeFevre Lane
New Rochelle, NY 10801
(914) 967-3433

SUPERTINENDENT OF MAINTENANCE (PUMPING STATIONS)

Joseph LaBella
c/o North Yonkers Pumping Station
19 Alexander Street
Yonkers, NY 10701
(914) 965-5233

APPENDIX A-2:
WCDEF Safety and Training Programs

WCDEF SAFETY AND TRAINING PROGRAMS (2017)

Program	Provider
HAZWOPER Initial Level Training	WCDEF
HAZWOPER Annual Refresher Training	WCDEF
Confined Space Initial Level Training	WCDEF
Confined Space Annual Refresher Training	WCDEF
Log Out Tag Out Annual Refresher Training	WCDEF
Steer Skid Steer (Bobcat) Operator Training	WCDEF
Adult CPR/AED Training	WCDEF
Basic Forklift Operator Training	WCDEF
SCBA Refresher and PRCS Rescue	WCDEF
Confined Space Rescue	WCDEF
HazWOper Refresher Training	WCDEF
Snow Plow Training	WCDEF / Pro Safety
Dig Safely Training	Dig Safely New York
Basic Operations for Wastewater Operators	Morrisville State College
Activated Sludge Wastewater Process	Morrisville State College
Grade 4 Management Wastewater Training	Morrisville State College
Grade 3 Supervision & Technical Wastewater Ops	Morrisville State College
NYSDOH Initial Backflow Training Program	Westchester Backflow Prevention School
OSHA HazWOper Training	OSHA Training Institute Region 1
Respirator Clearance Physical Examinations Initial	Partners in Safety
Respirator Clearance Physical Exams - HazWOpER	Partners in Safety
NYWEA Spring Conference & Exhibition	NYWEA
Nitrogen Removal	NYWEA
Solids Handling / Dewatering	NYWEA
Mathematics for Wastewater Operators	NYWEA
Equipment Winch / Davit Arm training	Miller / Grainger
Basic Laboratory Skills	American Water Works Association
Mechanics Skills Workshop	Applied Learning Concepts

APPENDIX A-3:
Sewer Overflow Emergency Response Plan



**County of Westchester
Department of Environmental Facilities
Sewer Overflow Response Plan (SORP)**

Prepared By:

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**Revised
November 2018**

SEWER OVERFLOW RESPONSE PLAN (SORP)

Approved On: November 1, 2005

Revised: November 2, 2018

Sewer System Owner:

County of Westchester
Department of Environmental Facilities
270 North Avenue
New Rochelle, New York 10801

Contact Person:

Vincent Kopicki, P.E., Commissioner
(914) 813-5450

Regulatory Agency To Report Sewer Overflow:

NYSDEC
100 Hillside Avenue, 1W
White Plains, NY 10603
Contact Person:
Meena George, P.E.
Phone: (914) 428-2505 x359
Fax: (914) 428-0323
mxgeorge@gw.dec.state.ny.us

Westchester County DOH
148 Huguenot Street
New Rochelle, NY 10801
Contact Person:
Delroy Taylor, P.E.
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SORP Prepared By:

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SEWER OVERFLOW RESPONSE PLAN (SORP)

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SEWER OVERFLOW RESPONSE PLAN (SORP)

I. AUTHORITY

This Sewer Overflow Response Plan (SORP) is prepared pursuant to the SPDES permits for the seven Wastewater Treatment Plants owned and operated by the Westchester County Department of Environmental Facilities (WCDEF) to facilitate proper incident reporting procedures outlined in 6 NYCRR Part 750-2 Operating in Accordance with a SPDES Permit, specifically 750-2.7 Incident Reporting.

II. GENERAL

The Sewer Overflow Response Plan (SORP) is designed to ensure that every report of a sewage overflow incident is immediately dispatched to the appropriate WCDEF personnel for confirmation. Quick response will minimize the effects of the overflow with respect to impacts on public health, beneficial uses and water quality of surface waters and on customer service. The SORP further includes provisions to ensure safety pursuant to the directions provided by the New York State Department of Environmental Conservation (NYSDEC) and that notification and reporting is made to the NYSDEC and the Westchester County Department of Health (WCDOH) when applicable. For purposes of this SORP, "confirmed sewage spill" is also sometimes referred to as "sewer overflow," "overflow," or "SSO." The original approval and effective date of this plan is November 1, 2005.

A. Objectives

The primary objective of the SORP is to protect public health and the environment, satisfy regulatory agencies and waste discharge permit conditions which address procedures for managing sewer overflows, and minimize risk of enforcement actions against the County of Westchester, sewer system owner.

Additional objectives of the SORP are as follows:

- Protect collection system personnel and wastewater treatment plant;
- Protect the collection system, wastewater treatment facilities, and all appurtenances; and
- Protect private and public property beyond the collection and treatment facilities.

B. Organization of Plan

The key elements of the SORP are addressed individually as follows:

Section III - Overflow Response Procedure
Section IV - Public Advisory Procedure
Section V - Regulatory Agency Notification Procedure
Section VI - Maintenance of SORP
Section VII - Appendices

SEWER OVERFLOW RESPONSE PLAN (SORP)

III. OVERFLOW RESPONSE PROCEDURE

The Overflow Response Procedure presents a strategy for the WCDEF to mobilize labor, materials, tools and equipment to correct or repair any condition, which may cause or contribute to an unpermitted discharge. The plan considers a wide range of potential system failures that could create an overflow to surface waters, land or buildings.

A. Receipt of Information Regarding an SSO

An overflow may be detected by County employees or by others. The WCDEF is responsible to act based on received phone calls or reports on possible sewage overflow from the wastewater collection system, and to provide immediate response to investigate and/or correct a reported sewer overflow.

Generally, telephone calls from the public reporting possible sewer overflows are received at the public offices identified in Appendix D.

1. The telephone call recipient obtains all relevant information available regarding the overflow including:
 - a. Time and date call was received;
 - b. Specific location;
 - c. Description of problem;
 - d. Time possible overflow was noticed by the caller;
 - e. Caller's name and phone number;
 - f. Observations of the caller; and
 - g. Other relevant information that will enable the WCDEF to quickly locate, assess and stop the overflow.

The telephone call recipient records this initial information and notifies the appropriate personnel.

2. The WCDEF dispatches sewer maintenance personnel to confirm the overflow. Until verified, the report of a possible spill will not be referred to as a "sewer overflow."

The WCDEF prepares a draft Report of Noncompliance Event report (Ref. Appendix A) within 24 hours of the sewer overflow confirmation and transmits the information electronically through the NYALERT notification system.

If the overflow will affect bathing areas during the bathing season, or public drinking water intakes, the WCDEF shall notify the NYSDEC contact person and the WCDOH contact person orally, within two hours of becoming aware of the discharge.

If the overflow results in a fish kill, notify the NYSDEC contact person within two hours of becoming aware of the discharge. The WCDEF Director of Wastewater Treatment is responsible for reviewing, updating and signing the final Report of

SEWER OVERFLOW RESPONSE PLAN (SORP)

Noncompliance Event. Sewage overflow response tracking protocol is summarized in Appendix C.

B. Dispatch of Sewer Maintenance Personnel to Site of Sewer Overflow

Failure of any element within the wastewater collection system that threatens to cause or causes a SSO must trigger an immediate response to isolate and correct the problem. Personnel and equipment must be available to respond to any SSO locations. A summary of the Sewer Overflow Action Plan is included in Appendix C.

1. Dispatching Maintenance Personnel

- When WCDEF receives notification of a potential sewer overflow outlined in Section A, WCDEF dispatches maintenance personnel with appropriate resources as required.

2. Maintenance Personnel Instructions

- Dispatch maintenance personnel by telephone. Assign and appropriate personnel, materials, supplies and equipment needed.
- All personnel being dispatched to the site of an SSO proceed immediately to the site of the overflow. Report any delays or conflicts in assignments immediately for resolution.
- In all cases, response maintenance personnel report their findings, including possible damage to private and public property, to a WCDEF Superintendent or Director immediately upon making their investigation. If the WCDEF Superintendent or Director has not received findings from the field crew within one (1) hour the WCDEF Superintendent or Director contacts the response maintenance personnel to determine the status of the investigation.

3. Additional Resources

The WCDEF Superintendent or Director receives and conveys to appropriate parties requests for additional personnel, material, supplies, and equipment for maintenance personnel working at the site of a sewer overflow.

4. Preliminary Assessment of Damage to Private and Public Property

The WCDEF maintenance personnel shall use discretion in their actions as reasonably as they can. They must be aware that the County of Westchester could face increased liability for any further damages inflicted to private property during such assistance. The WCDEF maintenance personnel shall not enter private property for purposes of assessing damage unless authorized by a WCDEF Superintendent or Director or the property owner. The WCDEF maintenance personnel shall take

SEWER OVERFLOW RESPONSE PLAN (SORP)

appropriate still photographs and/or video footage; if possible, of the sewer overflow impacted area in order to thoroughly document the nature and extent of impacts. Retain photographs for filing with the Overflow Report.

5. Field Supervision and Inspection

- The WCDEF Superintendent visits the site of the sewer overflow to ensure that provisions of this Overflow Response Plan and other directives are met.
- The WCDEF Director (Wastewater Treatment or Maintenance) is responsible for notifying NYSDEC and WCDOH within the specified time and submitting the final Report of Noncompliance Event.

6. Coordination with Hazardous Material Response

- Upon arrival at the scene of a sewer overflow, should a suspicious substance (e.g., oil sheen, foamy residue) be found on the ground surface, or should a suspicious odor (e.g., gasoline) not common to the sewer system be detected, the WCDEF sewer maintenance crew shall immediately contact the WCDEF Superintendent or Director for guidance before taking further action.
- Should the WCDEF Superintendent or Director determine the need to alert the hazardous material response team, The Superintendent or Director shall contact the hazardous material response team at 914-231-1905. Maintenance personnel shall wait for the hazardous waste team response.
- Contact the NYSDEC 24-hour Spill Hotline at 1-800-457-7362.
- Upon arrival of the hazardous material response team, the WCDEF sewer maintenance personnel take direction from the person with the lead authority of that team. Only when that authority determines it is safe and appropriate for the WCDEF sewer maintenance personnel to proceed under the SORP with the containment, clean-up activities and correction.

C. Overflow Correction, Containment, and Clean-Up

This section describes specific actions to be performed by the WCDEF sewer maintenance personnel during a SSO.

The objectives of these actions are:

- To protect public health, environment and property from sewage overflows and restore surrounding area back to normal as soon as possible;
- To establish perimeters and control zones with appropriate traffic cones and barricades, vehicles or use of natural topography (e.g., hills, berms);

SEWER OVERFLOW RESPONSE PLAN (SORP)

- To promptly notify the regulatory agency with preliminary overflow information and potential impacts;
- To contain the sewer overflow to the maximum extent possible including preventing the discharge of sewage into surface waters; and
- To minimize the County of Westchester's exposure to any regulatory agency penalties and fines.

Under most circumstances, the WCDEF can handle all response actions with its own maintenance forces. They have the skills and experience to respond rapidly and in the most appropriate manner. An important issue with respect to an emergency response is to ensure that the temporary actions necessary to divert flows and repair the problem do not produce a problem elsewhere in the system.

Circumstances may arise when the WCDEF could benefit from the support of private-sector construction assistance. This may be true in the case of large diameter pipes buried to depths requiring sheet piling and dewatering should excavation be required. The WCDEF has a contract in place for 24-hour emergency construction assistance. If deemed necessary, the WCDEF Supervisor will contact the Emergency Contractor.

1. Responsibilities of WCDEF Sewer Maintenance Personnel Upon Arrival

It is the responsibility of the first personnel who arrive at the site of a sewer overflow to protect the health and safety of the public by mitigating the impact of the overflow to the maximum extent possible. Should the overflow not be the responsibility of the WCDEF but there is imminent danger to public health, public or private property, or to the quality of waters of the state, then the WCDEF Supervisor takes prudent emergency action until the responsible party assumes responsibility and provides actions.

Upon arrival at a SSO, WCDEF sewer maintenance personnel perform the following:

- Determine the cause of the overflow, e.g. sewer line blockage, pump station mechanical or electrical failure, sewer line break, etc.;
- Identify and request assistance or additional resources to correct the overflow or to assist in determination of its cause;
- Take immediate steps to stop the overflow, e.g. relieves pipeline blockage, manually operates pump station controls, repairs pipe, etc. Extraordinary steps may be considered where overflows from private property threaten public health and safety (e.g., an overflow running off of private property into the public right-of-way); and

SEWER OVERFLOW RESPONSE PLAN (SORP)

- Request additional personnel, materials, supplies, or equipment that will expedite and minimize the impact of the overflow.

2. Initial Measures for Containment

Initiate measures to contain the overflowing sewage and recover where possible sewage, which has already been discharged, minimizing impact to public health or the environment.

- Determine the immediate destination of the overflow, e.g. storm drain, street curb gutter, body of water, stream bed, etc.;
- Identify and request the necessary materials and equipment to contain or isolate the overflow, if not readily available; and
- Take immediate steps to contain the overflow, e.g., block or bag storm drains, recover through tanker truck, divert into downstream manhole, etc.

3. Additional Measures Under Potentially Prolonged Overflow Conditions

In the event of a prolonged sewer line blockage or a sewer line collapse, set up a portable by-pass pumping or tanker truck operation around the obstruction.

- Take appropriate measures to determine the proper size and number of pumps or tanker trucks required to effectively handle the sewage flow.
- Implement continuous or periodic monitoring of the by-pass pumping or trucking operation as required.
- Address regulatory agency issues in conjunction with emergency repairs.

4. Cleanup

Clean sewer overflow sites thoroughly after an overflow. No readily identified residue (e.g., sewage solids, papers, rags, plastics, and rubber products) is to remain.

- Whenever possible digital photos should be taken of the area before and after cleanup.
- Where practical, thoroughly flush the area and clean of any sewage or wash-down water. Solids and debris are to be flushed, swept, raked, picked-up, and properly disposed.

SEWER OVERFLOW RESPONSE PLAN (SORP)

- Secure the overflow area to prevent contact by members of the public until the site has been thoroughly cleaned.
- Where appropriate, disinfect and deodorize the overflow site.
- Where sewage has resulted in ponding, pump the pond dry and dispose of the residue in accordance with applicable regulations and policies.
- If a ponded area contains sewage, which cannot be pumped dry, it may be treated with bleach. If sewage has discharged into a body of water that may contain fish or other aquatic life, do not use bleach. Contact the WCDOH for specific instructions.

D. Report of Noncompliance Event

The Report of Noncompliance Event in Appendix A contains information which is required to be reported to NYSDEC and to WCDOH.

If the overflow will affect bathing areas during the bathing season, or public drinking water intakes, the WCDEF shall notify the NYSDEC and the WCDOH within two hours of becoming aware of the discharge.

If the overflow results in a fish kill, notify the NYSDEC within two hours of becoming aware of the discharge.

WCDEF completes a Report of Noncompliance Event (Ref. Appendix A). The WCDEF Supervisor promptly notifies the WCDEF Office, NYSDEC and WCDOH when the overflow is eliminated. Information regarding the sewer overflow should include the following:

- Determination if the sewage overflow had reached surface waters, i.e., all overflows where sewage was observed running to surface waters, or there was obvious indication (e.g. sewage residue) that sewage flowed to surface waters; and
- Determination that the sewage overflow had not reached surface waters by describing conditions at the sewage overflow, which support this determination.
- Determination of the start time of the sewer overflow by one of the following methods:
 - a. Date and time information received and/or reported to have begun and later substantiated by WCDEF sewer maintenance personnel;
 - b. Visual observation;

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- Determination of the stop time of the sewer overflow by one of the following methods:
 - a. When the blockage is cleared or flow is controlled or contained; or
 - b. The arrival time of the WCDEF sewer maintenance personnel, if the overflow stopped between the time it was reported and the time of arrival.
- Visual observations

An estimation of the rate of sewer overflow in gallons per minute (GPM) by one of the following criteria:

- a. Direct observations of the overflow; or
 - b. Measurement of actual overflow rate from the sewer main.
- Determination of the volume of the sewer overflow
 - Photographs of the event, when possible.
 - Assessment of any damage to the exterior areas of public/private property. WCDEF sewer maintenance personnel shall not enter private property for purposes of estimating damage to structures, floor and wall coverings, and other personal property without authorization from the WCDEF Supervisor or the property owner.

E. Customer Satisfaction

The WCDEF Supervisor follows up in person or by telephone with the person(s) who had reported, or may have been impacted by the overflow. The cause of the overflow and its resolution will be disclosed.

IV. PUBLIC ADVISORY PROCEDURE

This section describes the actions the County of Westchester will take, in cooperation with the NYSDEC and/or WCDOH, to limit public access to areas potentially impacted by unpermitted discharges of pollutants to surface water bodies from the wastewater collection system.

SEWER OVERFLOW RESPONSE PLAN (SORP)

A. Temporary Signage

The WCDOH has primary responsibility for determining when to post notices of polluted surface water bodies or ground surfaces that result from uncontrolled wastewater discharges from its facilities. The postings do not necessarily prohibit use of recreational areas, unless posted otherwise, but provide a warning of potential public health risks due to sewage contamination. The WCDOH will determine if posting of a confirmed overflow is necessary.

The WCDEF will maintain a temporary barrier (such as "Caution" tape, traffic cones, etc.) as necessary to keep the general public away from the work or spill area.

B. Other Public Notification

Should the posting of surface water bodies or ground surfaces subjected to a sewer overflow be deemed necessary by the WCDOH, the WCDOH determines the need for further public notification.

V. REGULATORY AGENCY NOTIFICATION PLAN

The Regulatory Agency Notification Plan establishes procedures, which the WCDEF follows to provide formal notice to the NYSDEC as necessary in the event of a SSO.

Agency notifications will be performed in parallel with other internal notifications. Internal notification and mobilization of WCDEF sewer maintenance personnel are established in Section III - Overflow Response Procedure.

Using data supplied during the verification process and updates from maintenance personnel, an initial report will be provided to the NYSDEC and the WCDOH within either two (2) hours or 24 hours from the time the WCDEF became aware of the SSO. If the overflow will affect bathing areas during the bathing season, or public drinking water intakes, the WCDEF shall notify the NYSDEC WCDOH within two hours of becoming aware of the discharge. If the overflow results in a fish kill, notify the NYSDEC within two hours of becoming aware of the discharge.

Prepare and provide final report to the regulatory agency within five (5) days after the WCDEF becomes aware of the overflow. A WCDEF Director (Wastewater Treatment or Maintenance) is responsible for meeting the notification requirement. WCDEF prepares and signs the written notification to the appropriate regulatory agency of any confirmed overflows. Regardless of other notifications, a copy of the Report of Noncompliance Event is required to be submitted with the monthly Discharge Monitoring Report.

SEWER OVERFLOW RESPONSE PLAN (SORP)

A. Immediate Notification

The WCDEF shall notify the NYSDEC and the WCDOH within two hours of becoming aware of any spill or discharge. Notification will be made using the NYALERT system, which is designed to alert municipal agencies and the general public of an incident.

Fax or Email the final Report of Noncompliance Event to:

NYSDEC
100 Hillside Avenue, 1W, White Plains, NY 10603
Attn: Meena George, P.E.
Phone: (914) 428-2505 x359
Fax: (914) 428-0323
mxgeorge@gw.dec.state.ny.us

B. Secondary Notification

WCDEF Supervisor may contact other agencies, as necessary, as well as other interested and possibly impacted parties.

VI. MAINTENANCE OF SORP

The SORP will be reviewed on an annual basis. Possible amendments can include:

- Change in procedures
- Change in contact personnel
- Changes due to regulatory requirements

SEWER OVERFLOW RESPONSE PLAN (SORP)

Appendix A REPORT OF NONCOMPLIANCE EVENT



New York State Department of Environmental Conservation
Division of Water



Report of Noncompliance Event

To: DEC Water Contact _____ DEC Region: _____

Report Type: ☐ 3 Day ☐ Permit Violation ☐ Order Violation ☐ Anticipated Noncompliance ☐ Hygiene/Operation ☐ Other

SECTION 2

SPDES #: NY- _____ Facility: _____

Date of noncompliance: ____/____/____ Location (Outfall, Treatment Unit, or Pump Station): _____

Description of noncompliance(s) and cause(s): _____

Has event caused? (Yes) (No) If yes, when? _____ Was event due to plant upset? (Yes) (No) SPDES limits violated? (Yes) (No)

Start date, time of event: ____/____/____ (AM) (PM) End date, time of event: ____/____/____ (AM) (PM)

Date, time oral notification made to DEC? ____/____/____ (AM) (PM) DEC Official contacted: _____

Immediate corrective actions: _____

Preventive (long term) corrective actions: _____

SECTION 3

Complete this section if event was a hygiene:

Hygiene P-100-101: _____ Was prior DEC authorization required for this event? (Yes) (No)

DEC Official contacted: _____ Date of DEC approval: ____/____/____

Describe event in "Description of noncompliance and cause" area in Section 2. Detail the start and end dates and times in Section 2 also.

SECTION 4

Facility Representative: _____ Title: _____ Date: ____/____/____

Phone #: (____) _____ Fax #: (____) _____

I Certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my knowledge of the person or persons who transmit the information, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

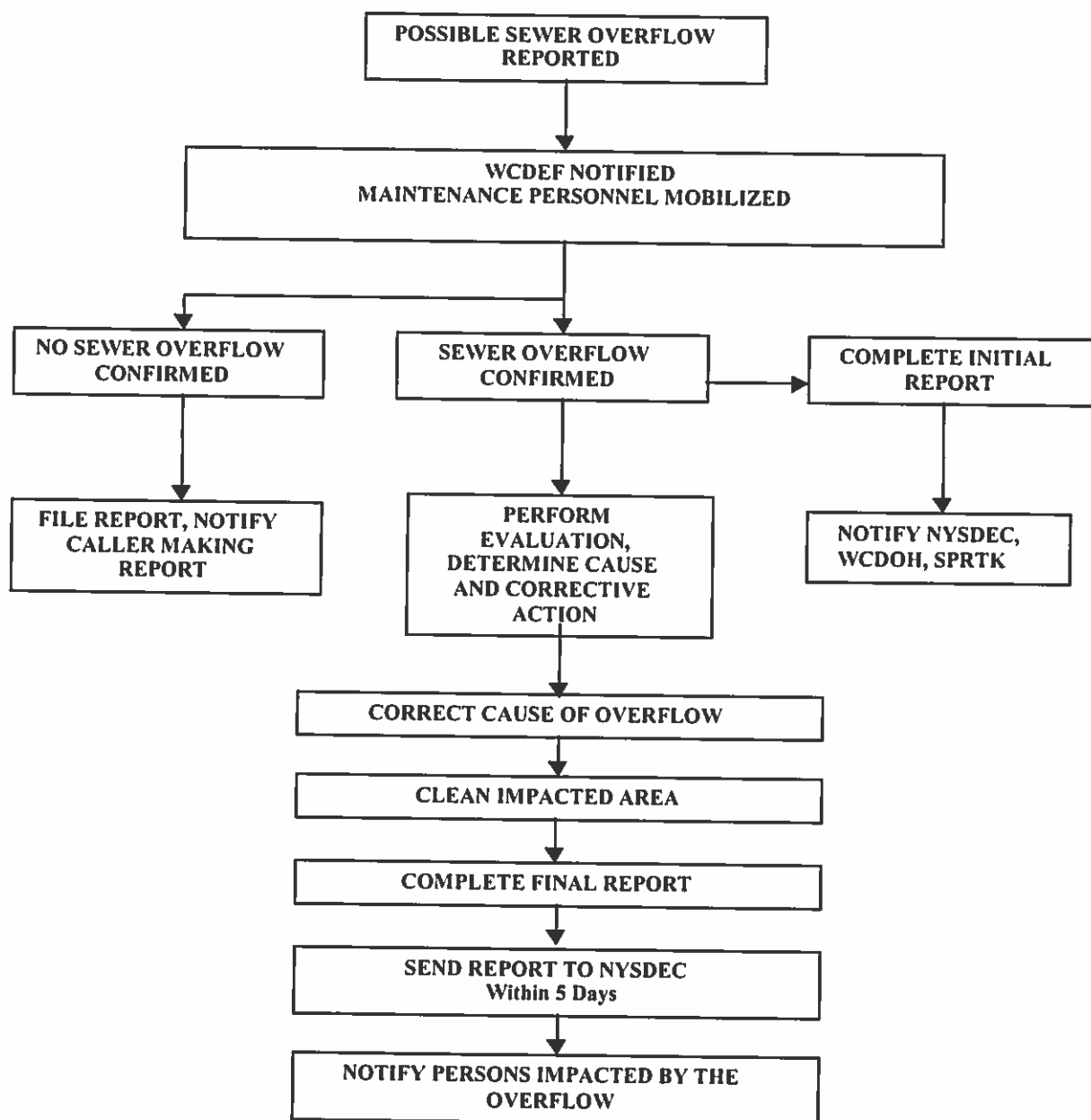
X

Signature of Principal Executive
Officer or Authorized Agent

SEWER OVERFLOW RESPONSE PLAN (SORP)

Appendix B

SEWER OVERFLOW NOTICE PLAN FLOW CHART – COUNTY OF WESTCHESTER WASTEWATER COLLECTION SYSTEM



SEWER OVERFLOW RESPONSE PLAN (SORP)

Appendix C

SEWER OVERFLOW (SSO) RESPONSE TRACKING PROTOCOL COUNTY OF WESTCHESTER WASTEWATER COLLECTION SYSTEM

Step	Event
1	Report of possible SSO received by WCDEF.
2	Telephone call recipient records initial information, and forwards this information to the WCDEF Director of Maintenance for entry into Report of Noncompliance Event
3	Telephone call recipient contacts WCDEF Superintendent or Director, which then deploys maintenance personnel to confirm reported SSO.
4	Maintenance personnel reports back to the WCDEF Superintendent or Director reporting significance of the overflow.
5	WCDEF prepares a draft Report of Noncompliance Event, and shall notify the NYSDEC contact person and the WCDOH contact person orally, within two hours of becoming aware of the spill or discharge
6	WCDEF will work continuously until the spill or discharge has been stopped. The NYSDEC and the WCDOH will be notified verbally with periodic status updates, during, and at the end of the event.
7	Within 5 days the WCDEF prepares final Report of Noncompliance Event. Report is sent to NYSDEC.
8	Data from Report of Noncompliance Event are entered into a permanent record on file in the office of the WCDEF Director of Maintenance.
9	Attach a copy of the Report of Noncompliance Event to Discharge Monitoring Report
10	Perform a Root Cause Analysis as required under ISO 14001

SEWER OVERFLOW RESPONSE PLAN (SORP)

Appendix D

LIST OF PUBLIC OFFICES TO REPORT OVERFLOW – COUNTY OF WESTCHESTER WASTEWATER COLLECTION SYSTEM

Contact Name	Telephone
WCDEF	Main Number: (914) 813-5400 Superintendent of Maintenance: (914) 403-1364 Director of Maintenance: (914) 906-9263
Westchester County Police	(914) 769-2600
NYSDEC	(914) 428-2505
WCDOH	(914) 813-5100
NYALERT	https://login.nyalert.gov/AllHazardlogin.aspx

Appendix E

SUGGESTED CRITERIA FOR DEMONSTRATING HOW A SEWER OVERFLOW WAS UNAVOIDABLE – COUNTY OF WESTCHESTER WASTEWATER COLLECTION SYSTEM

SSO's can be demonstrated as unavoidable by showing the discharge meets each of the criteria 1 through 4.

1. The discharge resulted from a temporary, exceptional incident that was either:
 - A. Necessary to prevent loss of life, personal injury, or severe property damage
 - B. Beyond the reasonable control of the operator. Incidents beyond the reasonable control of the operator would include:
 - Exceptional acts of nature;
 - Third party actions that could not be reasonably prevented, including vandalism that could not be avoided by reasonable measures;
 - Blockages that could not be avoided by reasonable measures;
 - Unforeseeable sudden structural, mechanical, or electrical failure that could not be avoided by reasonable measures.
2. The discharge had no feasible alternative
3. The discharge was not caused by any of the following;
 - A. Operational error,
 - B. Improperly designed or constructed collection system facilities,
 - C. Inadequate collection system facilities or components,
 - D. The lack of appropriate preventive maintenance, or
 - E. Careless or improper oversight
4. Steps to stop the discharge, address the source of the problem, and mitigate potential impacts from the discharge were taken as soon as possible after becoming aware of the release.

Appendix F
MEASURES TO AVOID SEWER OVERFLOW
COUNTY OF WESTCHESTER WASTEWATER DISPOSAL SYSTEM

A. Proper Collection System Maintenance and Operations Program

- Cleaning of pipes (grease, roots deposits)
- Sealing or maintenance for deteriorating sewers
- Remediation of poor/substandard construction (short term)
- Sewer replacement or rehabilitation program (long term)
- Proper maintenance and operations of pump stations per the Computerized Maintenance Management System (CMMS) and the Operations and Maintenance Manual (O&M)

B. New Wastewater Disposal System Construction

- Use latest technology and standards in constructing new wastewater collection system improvements
- Perform proper construction inspection/quality assurance procedures

SEWER OVERFLOW RESPONSE PLAN (SORP)

Appendix G

OVERFLOW DESCRIPTIONS AND REQUIRED NOTIFICATIONS

All spills and discharges require a verbal and an electronic notification within 2 hours

NYSDEC

NYSDEC
100 Hillside Avenue, 1W
White Plains, NY 10603
Contact Person:
Meena George, P.E.
Phone: (914) 428-2505 x359
Fax: (914) 428-0323
mxgeorge@gw.dec.state.ny.us
After Hours: (800) 457-7362

WCDOH

Westchester County DOH
148 Huguenot Street
New Rochelle, NY 10801
Contact Person:
Delroy Taylor, P.E.
Phone: (914) 813-5133
Fax: (914) 813-5158
dat5@westchestergov.com

After Hours: (888) 369-2086

NYALERT

<https://login.nyalert.gov/AllHazardlogin.aspx>

APPENDIX A-4:
Sanitary Sewer Overflows

Sanitary Sewer Overflow (SSO) Summary

Year	Number of SSO's
2015	5
2016	7
2017	3

To: Shohreh Karimipour, P.E, NYSDC Region 3,
Delroy Taylor, P.E., WC health Department,

Fax 914- 428-0323
Fax 914- 813-5158

SECTION 1



New York State Department of Environmental Conservation
Division of Water



Report of Noncompliance Event

To: Shohreh Karimipour, P.E., Regional Water Engineer, DEC Region 3

Report Type: ☒ 3 Day ☐ Permits Violation ☐ Order Violation ☐ Anticipated Noncompliance ☐ Bypass/Overflow ☐ Other

SECTION 2

SPDES #: NY- 0026689 Facility: North Yonkers P.S. Westchester County - DEF
Date of noncompliance: 4/22/17 Location (Outfall, Treatment Unit, or Pump Station): North Yonkers PS CSO outfall
Description of noncompliance(s) and cause(s): Discharge of partially treated /
partially chlorinated wastewater to the Hudson River
Cause was due to a power failure / tripping of a main
disconnect switch that shut down the sewage pumps.
Has event ceased? ☒ (Yes) (No) If so, when? 4/22/17 Was event due to plant upset? (Yes) (No) SPDES limits violated? ☒ (Yes) (No)
Start date, time of event: 4/22/17, 12:35 (AM) (PM) End date, time of event: 4/22/17, 1:55 (AM) (PM)
Date, time oral notification made to DEC? 4/22/17, 3:24 (AM) (PM) DEC Official contacted: NYA-LERT
Immediate corrective actions: See Attached time line

Preventive (long term) corrective actions: DEF will procure the services of a
consultant to perform a short circuit coordination
study for the electrical equipment.

SECTION 3

Complete this section if event was a bypass:

Bypass amount: _____ Was prior DEC authorization received for this event? (Yes) (No)

DEC Official contacted: _____ Date of DEC approval: 4.1

Describe event in "Description of noncompliance and cause" area in Section 2. Detail the start and end dates and times in Section 2 also.

SECTION 4

Facility Representative: Joseph Gibeau Title: Director-WW Date: 4/27/17
Phone #: (914) 813-5400 Fax #: (914) 813-5460

I Certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

x Joseph Gibeau
Signature of Principal Executive
Officer or Authorized Agent

North Yonkers Power Loss - Saturday 04/22/2017 @ 12:22 A.M.

- 1) Friday 04/21/2017 around 14:00 hrs. -Con Edison took preferred feeder #15w10 out of service for maintenance leaving us on secondary feeder #15w06 until further notice.
- 2) Saturday 04/22/2017 at approximately 12:22 A.M- DEF electrician received a phone call from North Yonkers with report of power loss
- 3) @ 12:34 A.M. - DEF electrician spoke with Con Edison while in route to location to inquire about the loss of power and was told feeder #15w06 was online with no issues.
- 4) At approximately 12:35 A.M. partially treated water with no chlorination began to discharge to the Hudson River.
- 5) @12:47 A.M. - DEF electrician spoke with North Yonkers again to run some basic troubleshooting questions. DEF electrician was also informed by North Yonkers that Con Edison crews were in the area outside the pumping station working. It is unclear if this had any relation to the loss of power.
- 6) @ 1:08 A.M. – Upon arrival of DEF's electrician he found a tripped 3000 amp Main Service Switch on a "Ground Fault" condition. Electrician then inspected all additional switches, breakers, mcc's , etc....and found no issues. He then attempted to reset and close the 3000 amp Main Switch. On the first attempt the switch went open immediately. The electrician then de-energized the feed to Main Switch and attempted to close again. On the second attempt the 3000 amp switch held and service was fully restored around 01:23 A.M.
- 7) @ Approximately 01:23 A.M power restored and chlorination started.
- 8) @ Approximately 01:29 A.M. the main sewage pumps were started.

9) @ Approximately 01:55 A.M discharge to Hudson River ended. From approximately 12:35 A.M to 1:23 A.M 880,000 gallons was partially treated with screenings and grit removal followed by sedimentation in the swirl tanks. From 1:23 A.M. to 1:55 A.M approximately 290,000 gallons of the total 1,170,000 gallons discharged was chlorinated.

10) Monday 04/24/2017 @ 9:00 A.M. Con Edison was on site to re-energize preferred feeder #15w10 and restore back in service. No issues were reported.

As requested, attached please find a copy of the monthly generator test work order and the annual generator preventative maintenance form. It should be noted that we did not lose utility power so the generator was not called to start because the malfunctioning equipment is downstream in the electrical distribution system.

PERFORM GENERATOR MONTHLY LOAD TEST.....

WO Type :	Corrective Maintenance	Date Created :	03-20-2017
Facility :	DEF-OM OUTSIDE MAINTENANCE	Created By :	Frank Spataro
Trade :	ELECTRICAL	WO Status :	Open
WO Class :	PM - Scheduled Repair	Completed Date :	
PM Code :		Assigned To :	Brian Jones
Scheduled Start Date : 03-20-2017			
Scheduled End Date : 03-20-2017			

Equipment :	NY-PS	NORTH YONKERS - PS
Parent :	DEF-PS	PUMP STATIONS TREATMENT PLANT

Employee Name	Date Worked	Hours Worked	Type of Hours
B. Butts A. Celi	3-20	2.0	R

Work Order Comments

Additional Work Order Comments

Failure :

Cause :

Action :

COMPLETED

GenServe

100 Newtown Road
Plainville, NY 11803
(831) 435-0437
Fax (831) 435-2273
www.genserveinc.com

341 Kaplan Drive - Unit 1
Fairfield, NJ 07004
(973) 614-0091
Fax (973) 614-0095
www.genserveinc.com

115A Twinbridge Drive
Perth Amboy, NJ 088103
(856) 324-0458
Fax (856) 436-8616
www.genserveinc.com

STANDBY POWER - COGENERATION
SALES - SERVICE - LEASING
718-956-8700 631-435-0437

ITE AME Westchester DEF #40 N Yonkers CUST P O # EF-1513 SERVICE JOB # 0112820 WO #
ADDRESS North Yonkers P/S # 40, 19 Alexander St. Yonkers, NY 10701

CONTACT PHONE 914-403-1658 DATE 6/8/2016
ENGINE/GENERATOR MAKE MODEL ESN

PEC # HRS 538.00
ENGINE/GENERATOR MAKE CUMMINS MODEL *QSK6086 SN 33153965

PEC # B24 ROBERT BURNS

UNIT ID: CUMMINS		PREVENTATIVE MAINTENANCE CHECK LIST		A-SERVICE	
LUBRICATION		EXHAUST SYSTEM		PRIM EM OVER(Cont)	
Check:		Check:		Check:	
a Leaks	X	a Leaks	X	j Valve clearance	
b Engine oil level	X	b Condensation trap	X	Torque:	
c Oil heater		c Manifold temp		k Bolts	
d Governor oil level		d Wet stacking		GENERATOR	
e Crankcase breather	X	e Insulation	X	Check:	
Change:		f Restriction	X	a Brushes	
f Oil filter	X	g Ramcap	X	b Commutator	
g Engine oil	X	h Hangers/supports	X	c Springs	
h Governor oil		i Flexsections	X	d Rotor	X
Test:		BATTERY SYSTEM		e Stator	X
i Oil sample	X	Check:		f Exciter	X
COOLING SYSTEM		a Charger voltage	X	1 Stator	X
Check:		1 Float	26.4/28.4 vdc X	2 Rotor	X
a Leaks	X	2 Equalize	27/27 vdc X	g Bearings	X
b Coolant level	X	b Electrolyte level		h Heat sinks	X
c Freeze point	-40F X	c Terminals	X	i Diodes	X
d Radiator air flow	X	d Cables	X	j Airflow	X
e Louver system	NA	e Specific gravity	X	k Voltage Regulator	X
f Block heater	X	1 High	1280 X	l Circuit breaker	X
g Water pump	X	2 Low	1240 X	Test:	
h Hoses	X	1 Load test	19.9 vdc X	m Megger	
i Belts	X	Clean:		Record:	
j Fan hub	X	g Corrosion	X	n Voltage	480 vdc X
k Pulleys	X	ELECTRICAL SYSTEM		GENERAL CONDITION-EPSS	
l Radiator PSI	X	Check:		Check:	
m Radiator cap PSI	X	a Wiring connections	X	a Unusual/unsafe	X
Change:		b Instrumentation	X	b Housekeeping	X
n Water filter	X	c Chaffing	X	LOAD TEST	
Change:		d Safety shutdowns	Visual X	Record:	
o Antifreeze		1 Overcrank	X	a Amperage/leg	No load X
FUEL SYSTEM		2 High water temperature	X	b Voltage/leg	277 vdc X
Check:		3 Low oil pressure	X	c Hertz	60 X
a Fuel leaks	X	4 Overspeed	X	EPSS	
b Lines/connections	X	e Alarms	X	Check:	
c Day tank level	95% X	f Prealarms	X	a EPSS in auto?	Y
d Day tank operation	X	g Circuit breakers	X	b Breaker closed?	Y
e Transfer pump	X	h Fuses	X	MAIN GENERATOR SWITCH GEAR	
f Main tank level	NA X	i Remote annunciator	X	Check:	
g Vents/overflow	X	Check:		a Windings and electrical connections	X
h Water in fuel	X	j Insulation damage	X	b Operation of generator/heater strips	
i Inject pump	X	Clean:		Grease:	
j Solenoid valve	X	k Cabinetry	X	c Bearing	
Change:		PRIM EM OVER		Check:	
k Fuel filter	Y	Check:		d Instrumentation	X
l Water separator		a Governor operation	X	e Power distribution wiring and connections	X
AIR INTAKE		b Vibration	X	f Power circuit breaker	X
Check:		c Timing	X	OPERATIONAL PROCEDURES	
a For leaks	X	d Injectors	X	Perform:	
b Air cleaner restrictions	X	e Mounting hardware	X	a Operational Load Test	
c Piping and connections	X	f Air intake	X	b Generator Load Bank Test	
Clean:		g Oil pressure	102 psi X	Diesel Emission Test:	
d Crankcase breather/part #		h Water temperature	143F X	Air Quality:	
e Or change air cleaner element/part #		i DC alternator	X	*As needed specified or during annual inspection only	
		1 Volts	27.1 vac X	**Additional cost if needed or specified	
		2 Amps			

OTES/COMMENTS

Oil sample # 16075U00212 coolant sample # 16071R05028 Recommend replacing batteries if they are over 3 yrs old Coolant on aftercooler circuit needs to be topped off slightly low

Time arrived 6/8/2016 0700

Time departed 6/8/2016 1500



TO:

NYSDEC - Shohreh Karimipour, P.E.
WCHD - Delroy Taylor, P.E.FAX 428-0323
FAX 813-5158

SECTION 1

New York State Department of Environmental Conservation
Division of WaterReport of Noncompliance Event

To: DEC Water Contact _____ DEC Region: _____

Report Type: ☐ 5 Day ☐ Permit Violation ☐ Order Violation ☐ Anticipated Noncompliance ☐ Bypass/Overflow ☐ Other

SECTION 2

SPRTEK #

SPDES #: NY-0026689 Facility: MT. KISCO FORCE MAINDate of noncompliance: 04/28/17 Location (Outfall, Treatment Unit, or Pump Station): FORCE MAINDescription of noncompliance(s) and cause(s): AT 9:35 AM ON 4/28/17, THE COUNTY WAS NOTIFIED THAT A CONTRACTOR WORKING ON THE SAW MILL PARKWAY HAD DAMAGED THE FORCE MAIN. APPROX 1,000 GALLONS SPILLED ONTO THE PARKWAY TO A NEARBY STORM MAINHas event ceased? ☒ (Yes) (No) If so, when? SAVES 04/28/17 Was event due to plant upset? (Yes) ☒ (No) SPDES limits violated? ☒ (Yes) (No)Start date, time of event: 04/28/17, 09:00 (AM) (PM) End date, time of event: 04/28/17, 09:10 (AM) (PM)Date, time and notification made to DEC? 04/28/17, 11:32 (AM) (PM) DEC Official contacted: NY ALERTImmediate corrective actions: PUMP STATION IS OWNED/OPERATED BY THE VILLAGE OF MT. KISCO. THEY WERE ON-SITE, AND IMMEDIATELY DIVERTED FLOW TO A PARALLEL FORCE MAINPreventive (long term) corrective actions: NOT A COUNTY ISSUE. FORCE MAIN WAS PROPERLY MARKED OUT. CONTRACTOR IS WORKING FOR NYSDOT

SECTION 3

Complete this section if event was a bypass:

Bypass amount: _____ Was prior DEC authorization received for this event? (Yes) (No)

DEC Official contacted: _____ Date of DEC approval: 1 / 1

Describe event in "Description of noncompliance and cause" area in Section 2. Detail the start and end dates and times in Section 2 also.

SECTION 4

Facility Representative: Joseph Gibney Title: Director-WW Date: 5/2/17Phone #: (914) 813-5460 Fax #: (914) 813-5460

I Certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.



Signature of Principal Executive
Officer or Authorized Agent

TO:

NYSDEC - Shohreh Karimipour, P.E.
WCHD - Delroy Taylor, P.E.FAX 428-0323
FAX 813-5158

SECTION 1

New York State Department of Environmental Conservation
Division of WaterReport of Noncompliance Event

To: DEC Water Contact _____ DEC Region: _____

Report Type: ☐ 5 Day ☐ Permit Violation ☐ Order Violation ☐ Anticipated Noncompliance ☐ Bypass/Overflow ☐ Other

SECTION 2

SPRTK #

SPDES #: NY-0026689 Facility: MT. KISCO FORCE MAIN

Date of noncompliance: 05/15/17 Location (Outfall, Treatment Unit, or Pump Station): FORCE MAIN

Description of noncompliance(s) and cause(s): WATER WAS OBSERVED ON THE EAST SIDE OF THE SON MILL RIVER PARKWAY JUST SOUTH OF THE MT. KISCO PUMP STATION. APPROXIMATELY 15,000 GALLONS WAS RELEASED TO THE GROUND (SEE ATTACHED MEMO).

Has event ceased? ☒ (Yes) ☐ (No) If so, when? SAME DAY Was event due to plant upset? ☒ (Yes) ☐ (No) SPDES limits violated? ☒ (Yes) ☐ (No)

Start date, time of event: 05/15/17, 06:00 (AM) (PM) End date, time of event: 05/15/17, 07:00 (AM) (PM)

Date, time and notification made to DEC? 05/15/17, 09:48 (AM) (PM) DEC Official contacted: NYALERT

Immediate corrective actions: MT. KISCO WAS NOTIFIED AND DIVERTED FLOW TO A PARALLEL FORCE MAIN. WESTCHESTER COUNTY WAS NOTIFIED AT 7:50 AM AND IMMEDIATELY DISPATCHED PIPE AND COUPLINGS TO THE SITE.

Preventive (long term) corrective actions: DAMAGE WAS POSSIBLY DUE TO CONSTRUCTION ACTIVITIES ON THE SON MILL RIVER PARKWAY

SECTION 3

Complete this section if event was a bypass:

Bypass amount: _____ Was prior DEC authorization received for this event? ☐ (Yes) ☐ (No)

DEC Official contacted: _____ Date of DEC approval: 1/1

Describe event in "Description of noncompliance and cause" area in Section 2. Detail the start and end dates and times in Section 2 also.

SECTION 4

Facility Representative: Joseph Gibney Title: Director Date: 5/18/17


Phone #: (914) 813-5400 Fax #: (914) 813-5460

I Certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Joseph Gibney
Signature of Principal Executive
Officer or Authorized Agent

**Memorandum
Department of Environmental Facilities**

TO: Joseph Gibney, P.E.
Director of Wastewater Treatment

FROM: Michael J. Facelle, P.E. 
Director of Maintenance

DATE: May 16, 2017

RE: Mt. Kisco Force Main Estimated Flow Correction

As you are aware, on Monday, May 15th, a break was discovered on the Mt. Kisco Force Main. I arrived on site after the discharge had ended, and initial discussions with Mt. Kisco personnel led to the estimation of a discharge of 100,000 gallons. Upon further review of the pipe damage and discussion with the Mt. Kisco DPW Supervisor, this estimate should be reduced to 15,000 gallons.

At the time of the break, the pump station flow was 1.6 MGD, which equates to 67,000 gallons per hour. Being that the discharge event lasted one hour, the absolute maximum release (assuming a worst-case 100% discharge) could only be 67,000 gallons.

The damage was found to be a longitudinal crack on the top of the pipe. Due to this, it is reasonable to estimate that 80-90% of the flow remained in the pipe. Therefore, 20% of 67,000 is 13,400, so a conservative estimate of 15,000 gallons is appropriate.

APPENDIX A-5:
Annual Report of Sewage Pumping Station
Operations



**WESTCHESTER COUNTY
DEPARTMENT OF ENVIRONMENTAL FACILITIES**

**2017 ANNUAL REPORT
OF
SEWAGE PUMPING STATION OPERATIONS**

March 15, 2018

Submitted to:
Delroy Taylor, P.E.
Associate Engineer
Bureau of Environmental Quality
Westchester County Department of Health
25 Moore Avenue
Mount Kisco, NY 10549

By:
Marian Pompa, Jr., P.E.
Associate Engineer
Westchester County Department of Environmental Facilities
270 North Avenue, 6th Floor
New Rochelle, NY 10801

**Westchester County
Department of Environmental Facilities
Pump Station Annual Report
Year 2017**

Pump Station Owner and Operator Name, Address and Telephone Number:

<u>Name</u>	<u>Westchester County Dept. of Environmental Facilities</u>
<u>Address</u>	<u>270 North Ave New Rochelle, New York 10601</u>
<u>Telephone #</u>	<u>914-813-5400</u>

Pump Station Operations and Emergency Contact Person:

<u>Name</u>	<u>Michael J. Facelle, P.E. Director of Maintenance</u>	
<u>Telephone #</u>	<u>Office 914-813-5449</u>	<u>Cell 914-906-9263</u>

Emergency 24 Hour Contacts:

<u>Name</u>	<u>Joseph LaBella Superintendent of Maintenance</u>
<u>Telephone #</u>	<u>Cell 914-755-1807</u>
<u>Name</u>	<u>Ron Tytlar Chief Operator</u>
<u>Telephone #</u>	<u>Cell 914-403-1658</u>

Pump Station Name:

Alexander Street Pump Station

Location:

Block & Lot Number

Address

19 Alexander Street Yonkers, N.Y. 10701

Nearest Cross Street

Wells Ave

Sewer District

North Yonkers

Service Area

Northwest Yonkers

Watershed Area

N/A

Treatment Plant

Yonkers Joint Treatment Plant

Construction Date

1932

Reconstruction Date

1956 Converted to Pump Sta. from screenings plant

Rehabilitation Dates

1992-4 Complete Rehabilitation

Design Capacity

12.6 MGD

Number of Pumps

3

Average Daily Flow

1.298 MGD

Force Main

18" diameter – 100 LF

Overflow Pipe Location

Hudson River

Emergency Power

Yes

Overflow History

0 occurrences

Pump Station Name:

Archville Pump Station

Location:

Block & Lot Number

Address

Albany Post Road Briarcliff Manor, N.Y.10510

Nearest Cross Street

Requa Street

Sewer District

Ossining

Service Area

Briarcliff Manor

Watershed Area

N/A

Treatment Plant

Ossining Treatment Plant

Construction Date

1970's

Reconstruction Date

Rehabilitation Dates

1997-8 Complete Rehabilitation

Design Capacity

0.144 MGD

Number of Pumps

2

Average Daily Flow

0.009 MGD

Force Main

4" diameter – 1,200 LF

Overflow Pipe Location

N/A

Emergency Power

Yes

Overflow History

0 occurrences

Pump Station Name:

Beach Ave Pump Station

Location:

Block & Lot Number

Address

Beach Ave Larchmont, N.Y. 10538

Nearest Cross Street

Park Ave

Sewer District

New Rochelle

Service Area

Larchmont

Watershed Area

N/A

Treatment Plant

New Rochelle Treatment Plant

Construction Date

1930

Reconstruction Date

1995 New Pumps

Rehabilitation Dates

2007 Complete Rehabilitation

Design Capacity

0.72 MGD

Number of Pumps

2

Average Daily Flow

0.188 MGD

Force Main

8" diameter – 1,400 LF

Overflow Pipe Location

Long Island Sound

Emergency Power

Yes

Overflow History

0 occurrences

Pump Station Name:

Beaver Brook Pump Station AKA Glen Oaks Pump Station

Location:

Block & Lot Number

Address Glen Oaks Drive Rye, N.Y. 10580

Nearest Cross Street Coolidge Ave

Sewer District Blind Brook

Service Area Rye

Watershed Area N/A

Treatment Plant Blind Brook Treatment Plant

Construction Date 1960's

Reconstruction Date 1995 New compressors

Rehabilitation Dates 2005 Complete Rehabilitation

Design Capacity 0.058 MGD

Number of Pumps 2

Average Daily Flow 0.005 MGD

Force Main 4" diameter – 273 LF

Overflow Pipe Location N/A

Emergency Power Portable Emergency Generator

Overflow History 0 occurrences

Pump Station Name:

Briarcliff Pump Station

Location:

Block & Lot Number

Address

9A North 1500' north of the Rt. 117 overpass
Pleasantville, N.Y. 10570

Nearest Cross Street

Route 117

Sewer District

Sawmill

Service Area

Briarcliff Manor

Watershed Area

N/A

Treatment Plant

Yonkers Joint Treatment Plant

Construction Date

1960's

Reconstruction Date

Replaced Emergency Generator 2001-02

Rehabilitation Dates

2007 Complete Rehabilitation

Design Capacity

4.9 MGD

Number of Pumps

3

Average Daily Flow

0.75 MGD Estimated

Force Main

12" diameter – 4,444 LF

Overflow Pipe Location

N/A

Emergency Power

Yes

Overflow History

0 occurrences

Pump Station Name:

Cove Road Pump Station

Location:

Block & Lot Number

Address

Cove Road Mamaroneck, N.Y. 10543

Nearest Cross Street

Orienta Ave

Sewer District

Mamaroneck

Service Area

Mamaroneck

Watershed Area

N/A

Treatment Plant

Mamaroneck Treatment Plant

Construction Date

1950's

Reconstruction Date

Rehabilitation Dates

1985 Complete rehabilitation Design for new upgrades 2017

Design Capacity

0.58 MGD

Number of Pumps

2

Average Daily Flow

0.045 MGD

Force Main

6" diameter – 390 LF

Overflow Pipe Location

N/A

Emergency Power

Yes

Overflow History

0 occurrences

Pump Station Name:

Country Club Pump Station

Location:

Block & Lot Number

Address

Country Club Lane South Briarcliff Manor, N.Y. 10510

Nearest Cross Street

Country Club Lane

Sewer District

Ossining

Service Area

Briarcliff Manor

Watershed Area

N/A

Treatment Plant

Ossining Treatment Plant

Construction Date

1970's

Reconstruction Date

Rehabilitation Dates

2000-1

Complete Rehabilitation

Design Capacity

0.1 MGD

Number of Pumps

2

Average Daily Flow

0.002 MGD

Force Main

3" diameter – 350 LF

Overflow Pipe Location

N/A

Emergency Power

Portable Emergency Generator

Overflow History

0 occurrences

Pump Station Name:

Croton Pump Station

Location:

Block & Lot Number

Address

Municipal Place Croton on Hudson, N.Y. 10520

Nearest Cross Street

South Riverside Ave

Sewer District

Ossining

Service Area

Croton on Hudson

Watershed Area

N/A

Treatment Plant

Ossining Treatment Plant

Construction Date

1980's

Reconstruction Date

Rehabilitation Dates

2001 Complete rehabilitation

Design Capacity

5.3 MGD

Number of Pumps

3

Average Daily Flow

0.625 MGD

Force Main

16" diameter – 3,458 LF

Overflow Pipe Location

N/A

Emergency Power

Yes

Overflow History

0 occurrences

Pump Station Name:

Crotonville Pump Station

Location:

Block & Lot Number

Address

Old Albany Post Road, Ossining, N.Y. 10562

Nearest Cross Street

Intersection of Routes 9 & 9A

Sewer District

Ossining

Service Area

Croton on Hudson / Ossining

Watershed Area

N/A

Treatment Plant

Ossining Treatment Plant

Construction Date

1980's

Reconstruction Date

Rehabilitation Dates

1997 Complete rehabilitation Design for new upgrades 2017

Design Capacity

13.4 MGD

Number of Pumps

4

Average Daily Flow

1.141 MGD

Force Main

24" diameter – 8,670 LF

Overflow Pipe Location

Croton River

Emergency Power

Yes

Overflow History

0 occurrences

Pump Station Name:

Croton Landfill Ballfield Pump Station

Location:

Block & Lot Number

Address

Croton Landfill Road Croton on Hudson, N.Y. 10520

Nearest Cross Street

N/A

Sewer District

Ossining

Service Area

Croton Point Park / Landfill

Watershed Area

N/A

Treatment Plant

Ossining Treatment Plant

Construction Date

1980's

Reconstruction Date

Rehabilitation Dates

2015 through 2017

Design Capacity

0.27 MGD

Number of Pumps

1

Average Daily Flow

0.000003 MGD

Force Main

4" diameter – 230 LF

Overflow Pipe Location

N/A

Emergency Power

Portable emergency generator

Overflow History

0 occurrences

Pump Station Name:

Croton Landfill Seeps Pump Station

Location:

Block & Lot Number

Address

Croton Landfill Road Croton on Hudson, N.Y. 10520

Nearest Cross Street

N/A

Sewer District

Ossining

Service Area

Croton Landfill

Watershed Area

N/A

Treatment Plant

Ossining Treatment Plant

Construction Date

1991-3

Reconstruction Date

Rehabilitation Dates

2015 through 2017

Design Capacity

0.19 MGD

Number of Pumps

2

Average Daily Flow

0.0013 MGD

Force Main

4" diameter – 600 LF

Overflow Pipe Location

N/A

Emergency Power

Portable emergency generator

Overflow History

0 occurrences

Pump Station Name:

Croton Landfill Pump Station No. 1

Location:

Block & Lot Number

Address

Croton Point Ave Croton on Hudson, N.Y. 10520

Nearest Cross Street

N/A

Sewer District

Ossining

Service Area

Croton Point Park / Landfill

Watershed Area

N/A

Treatment Plant

Ossining Treatment Plant

Construction Date

1991-3

Reconstruction Date

Rehabilitation Dates

2015 through 2017

Design Capacity

0.56 MGD

Number of Pumps

2

Average Daily Flow

0.0118 MGD

Force Main

8" diameter – 200 LF

Overflow Pipe Location

N/A

Emergency Power

Portable emergency generator

Overflow History

0 occurrences

Pump Station Name:

Croton Landfill Condensate Pump Station

Location:

Block & Lot Number

Address

Croton Landfill Road Croton on Hudson, N.Y. 10520

Nearest Cross Street

N/A

Sewer District

Ossining

Service Area

Croton Landfill

Watershed Area

N/A

Treatment Plant

Ossining Treatment Plant

Construction Date

1991-3

Reconstruction Date

Rehabilitation Dates

2015 through 2017

Design Capacity

0.075 MGD

Number of Pumps

2

Average Daily Flow

0.000005 MGD

Force Main

4" diameter – 150 LF

Overflow Pipe Location

N/A

Emergency Power

Portable emergency generator

Overflow History

0 occurrences

Pump Station Name:

Croton Landfill Pump Station No. 2

Location:

Block & Lot Number

Address

Croton Point Ave Croton on Hudson, N.Y. 10520

Nearest Cross Street

N/A

Sewer District

Ossining

Service Area

Croton Point Park / Landfill

Watershed Area

N/A

Treatment Plant

Ossining Treatment Plant

Construction Date

1991-3

Reconstruction Date

Rehabilitation Dates

2015 through 2017

Design Capacity

0.79 MGD

Number of Pumps

2

Average Daily Flow

0.072 MGD

Force Main

8" diameter – 3000 LF

Overflow Pipe Location

N/A

Emergency Power

Portable emergency generator

Overflow History

0 occurrences

Pump Station Name:

Dobbs Ferry Pump Station

Location:

Block & Lot Number

Address

Depot Plaza Dobbs Ferry, N.Y. 10522

Nearest Cross Street

High Street

Sewer District

North Yonkers

Service Area

Dobbs Ferry

Watershed Area

N/A

Treatment Plant

Yonkers Joint Treatment Plant

Construction Date

1932

Reconstruction Date

1980's

Rehabilitation Dates

1997 Complete Rehabilitation

Design Capacity

0.29 MGD

Number of Pumps

2

Average Daily Flow

0.024 MGD

Force Main

6" diameter – 170 LF

Overflow Pipe Location

Hudson River

Emergency Power

Yes

Overflow History

0 occurrences

Pump Station Name:

Edgewater Point Pump Station

Location:

Block & Lot Number

Address

Flagler Drive Mamaroneck, N.Y. 10543

Nearest Cross Street

Orienta Ave

Sewer District

Mamaroneck

Service Area

Mamaroneck

Watershed Area

N/A

Treatment Plant

Mamaroneck Treatment Plant

Construction Date

1950's

Reconstruction Date

Rehabilitation Dates

1992 Complete rehabilitation, New Rehabilitation Design complete, Under Construction in 2017

Design Capacity

1.73 MGD

Number of Pumps

2

Average Daily Flow

0.074 MGD

Force Main

10" diameter – 3,951 LF

Overflow Pipe Location

Larchmont Harbor

Emergency Power

Yes

Overflow History

0 occurrence

Pump Station Name:

Fenimore Road Pump Station

Location:

Block & Lot Number

Address

Fenimore Road Mamaroneck, N.Y. 10543

Nearest Cross Street

Country Road

Sewer District

Mamaroneck

Service Area

Mamaroneck

Watershed Area

N/A

Treatment Plant

Mamaroneck Treatment Plant

Construction Date

1950's

Reconstruction Date

Rehabilitation Dates

1997 Complete rehabilitation

Design Capacity

1.87 MGD

Number of Pumps

2

Average Daily Flow

0.185 MGD

Force Main

10" diameter – 1,950 LF

Overflow Pipe Location

N/A

Emergency Power

Yes

Overflow History

0 occurrence

Pump Station Name:

Fifth Ave Pump Station

Location:

Block & Lot Number

Address

City Park Road New Rochelle, N.Y.10801

Nearest Cross Street

Fifth Ave

Sewer District

New Rochelle

Service Area

New Rochelle

Watershed Area

N/A

Treatment Plant

New Rochelle Treatment Plant

Construction Date

1960's

Reconstruction Date

Rehabilitation Dates

1999 Complete rehabilitation

Design Capacity

4.9 MGD

Number of Pumps

3

Average Daily Flow

0.236 MGD

Force Main

10" diameter – 1,075 LF and 14" diameter – 254 LF

Overflow Pipe Location

N/A

Emergency Power

Yes

Overflow History

0 occurrences

Pump Station Name:

Flint Ave Pump Station

Location:

Block & Lot Number

Address

Flint Ave. Larchmont, N.Y.10538

Nearest Cross Street

Cherry Ave

Sewer District

New Rochelle

Service Area

New Rochelle

Watershed Area

N/A

Treatment Plant

New Rochelle Treatment Plant

Construction Date

1960's

Reconstruction Date

1992-3

New pumps

Rehabilitation Dates

Complete Rehabilitation -2008

Design Capacity

5.8 MGD

Number of Pumps

2

Average Daily Flow

1.550 MGD

Force Main

14" diameter – 1,355 LF

Overflow Pipe Location

Long Island Sound

Emergency Power

Yes

Overflow History

0 occurrences

Pump Station Name:

Glen Island I (Casino)

Location:

Block & Lot Number

Address

Glen Island Park, New Rochelle, N.Y. 10805

Nearest Cross Street

Glen Island Approach

Sewer District

New Rochelle

Service Area

Glen Island Casino

Watershed Area

N/A

Treatment Plant

New Rochelle Treatment Plant

Construction Date

1960's

Reconstruction Date

Rehabilitation Dates

2007 Complete Rehabilitation

Design Capacity

0.25 MGD

Number of Pumps

2

Average Daily Flow

0.034 MGD

Force Main

975 LF

Overflow Pipe Location

Long Island Sound

Emergency Power

Yes

Overflow History

0 occurrences

Pump Station Name:

Glen Island II (Administration)

Location:

Block & Lot Number

Address

Glen Island Park, New Rochelle, N.Y. 10805

Nearest Cross Street

Glen Island Approach

Sewer District

New Rochelle

Service Area

Glen Island Park

Watershed Area

N/A

Treatment Plant

New Rochelle Treatment Plant

Construction Date

1960's

Reconstruction Date

Rehabilitation Dates

2007 Complete Rehabilitation

Design Capacity

0.7 MGD

Number of Pumps

2

Average Daily Flow

0.105 MGD

Force Main

1,800 LF

Overflow Pipe Location

Long Island Sound

Emergency Power

Yes

Overflow History

0 occurrences

Pump Station Name:

Hastings Pump Station

Location:

Block & Lot Number

Address

River Street Hastings on Hudson, N.Y. 10706

Nearest Cross Street

Dock Ave

Sewer District

North Yonkers

Service Area

Hastings

Watershed Area

N/A

Treatment Plant

Yonkers Joint Treatment Plant

Construction Date

1932

Reconstruction Date

1980's

Rehabilitation Dates

1997 Complete Rehabilitation

Design Capacity

1.44 MGD

Number of Pumps

2

Average Daily Flow

0.080 MGD

Force Main

8" diameter – 545 LF

Overflow Pipe Location

Hudson River

Emergency Power

Yes

Overflow History

0 occurrences

Pump Station Name:

Hutchinson Pump Station

Location:

Block & Lot Number

Address

Garden Ave Extension Mount. Vernon, N.Y.10533

Nearest Cross Street

East Sanford Boulevard

Sewer District

Hutchinson

Service Area

Mount Vernon

Watershed Area

N/A

Treatment Plant

Yonkers Joint Treatment Plant

Construction Date

1932

Reconstruction Date

1995-6

Installed variable frequency drives

Rehabilitation Dates

2016 Complete Rehabilitation

Design Capacity

28.8 MGD

Number of Pumps

4

Average Daily Flow

3.742 MGD

Force Main

36" diameter – 1,729 LF

Overflow Pipe Location

N/A

Emergency Power

Yes

Overflow History

0 occurrences

Pump Station Name:

Irvington Pump Station

Location:

Block & Lot Number

Address

South Buckhout Street Irvington, N.Y. 10533

Nearest Cross Street

Astor Street

Sewer District

North Yonkers

Service Area

Irvington

Watershed Area

N/A

Treatment Plant

Yonkers Joint Treatment Plant

Construction Date

1976

Reconstruction Date

Rehabilitation Dates

2002-3 Complete Rehabilitation

Design Capacity

11.23 MGD

Number of Pumps

3

Average Daily Flow

1.454 MGD

Force Main

18" diameter – 7,967 LF

Overflow Pipe Location

Hudson River

Emergency Power

Yes

Overflow History

0 occurrences

Pump Station Name:

Jackson Ave Pump Station AKA Sprain Pump Station

Location:

Block & Lot Number

Address

Old Jackson Ave. Hastings on Hudson, N.Y. 10706

Nearest Cross Street

Jackson Ave

Sewer District

Bronx Valley

Service Area

Hastings / Greenburgh

Watershed Area

N/A

Treatment Plant

Yonkers Joint Treatment Plant

Construction Date

1960's

Reconstruction Date

Rehabilitation Dates

1998 Complete Rehabilitation

Design Capacity

3.46 MGD

Number of Pumps

3

Average Daily Flow

0.518 MGD

Force Main

14" diameter – 3,321 LF

Overflow Pipe Location

Stream tributary to Sprain Lake

Emergency Power

Yes

Overflow History

0 occurrences

Pump Station Name:

Kemey's Cove Pump Station

Location:

Block & Lot Number

Address

Kemeys Ave Briarcliff Manor, N.Y. 10510

Nearest Cross Street

Revolutionary Road

Sewer District

Ossining

Service Area

Briarcliff Manor

Watershed Area

N/A

Treatment Plant

Ossining Treatment Plant

Construction Date

1980's

Reconstruction Date

1994-5 New Pumps

Rehabilitation Dates

Complete Reconstruction 2007

Design Capacity

2.02 MGD

Number of Pumps

2

Average Daily Flow

0.275 MGD

Force Main

10" diameter – 2,042 LF

Overflow Pipe Location

N/A

Emergency Power

Yes

Overflow History

0 occurrences

Pump Station Name:

Ludlow Street Pump Station

Location:

Block & Lot Number

Address

Federal Street Yonkers, N.Y. 10701

Nearest Cross Street

Knowles Street

Sewer District

South Yonkers

Service Area

Southwest Yonkers

Watershed Area

N/A

Treatment Plant

Yonkers Joint Treatment Plant

Construction Date

1932

Reconstruction Date

1970's

Rehabilitation Dates

1992-4 Complete Rehabilitation

Design Capacity

3.9 MGD

Number of Pumps

3

Average Daily Flow

0.559 MGD

Force Main

14" diameter – 60 LF

Overflow Pipe Location

Hudson River

Emergency Power

Yes

Overflow History

0 occurrences

Pump Station Name:

Magnolia Ave Pump Station

Location:

Block & Lot Number

Address

Magnolia Ave Larchmont, N.Y. 10538

Nearest Cross Street

Ocean Ave

Sewer District

New Rochelle

Service Area

Larchmont

Watershed Area

N/A

Treatment Plant

New Rochelle Treatment Plant

Construction Date

1950's

Reconstruction Date

2012

Rehabilitation Dates

Complete rehabilitation 2012

Design Capacity

1.44 MGD

Number of Pumps

2

Average Daily Flow

0.028 MGD

Force Main

6" diameter – 20 LF and 10" diameter – 1,500 LF

Overflow Pipe Location

N/A

Emergency Power

Yes

Overflow History

0 occurrences

Pump Station Name:

Main Street Pump Station

Location:

Block & Lot Number

Address

Main Street Yonkers, N.Y. 10701

Nearest Cross Street

Foot of Main Street

Sewer District

South Yonkers

Service Area

Southwest Yonkers

Watershed Area

N/A

Treatment Plant

Yonkers Joint Treatment Plant

Construction Date

1932

Reconstruction Date

1970's

Rehabilitation Dates

1992-4 Complete Rehabilitation, Upgrades in 2007

Design Capacity

8.1 MGD

Number of Pumps

3

Average Daily Flow

0.914 MGD

Force Main

16" diameter – 20 LF

Overflow Pipe Location

Hudson River

Emergency Power

Yes

Overflow History

0 occurrences

Pump Station Name:

Mill Street Pump Station AKA Shrub Oak Pump Station

Location:

Block & Lot Number

Address

Mill Street Shrub Oak, N.Y. 10588

Nearest Cross Street

Aspen Road

Sewer District

Peekskill

Service Area

Peekskill

Watershed Area

N/A

Treatment Plant

Peekskill Treatment Plant

Construction Date

1980's

Reconstruction Date

-

Rehabilitation Dates

Complete Rehabilitation 2011-2012

Design Capacity

9.72 MGD

Number of Pumps

3

Average Daily Flow

1.045 MGD

Force Main

18" diameter – 1,921 LF

Overflow Pipe Location

N/A

Emergency Power

Yes

Overflow History

0 occurrences

Pump Station Name:

North Yonkers Pump Station

Location:

Block & Lot Number

Address

19 Alexander Street Yonkers, N.Y. 10701

Nearest Cross Street

Wells Ave.

Sewer District

North Yonkers

Service Area

Northwest Yonkers

Watershed Area

N/A

Treatment Plant

Yonkers Joint Treatment Plant

Construction Date

1932

Reconstruction Date

1956 Converted to Pump Sta. from screenings plant

Rehabilitation Dates

1983-Present Electrical upgrade, screening and grit
removal equipment upgrade, pump equipment upgrade CSO
installation, chlorine to sodium hypochlorite conversion,
maintenance and storage building construction, emergency
generator installation, electrical service upgrade.
Three new pumps installed 2008- Fourth installed 2009.

Design Capacity

74 MGD

Number of Pumps

4

Average Daily Flow

25.0 MGD

Force Main

54" diameter – 7,022 LF

Overflow Pipe Location

Hudson River

Emergency Power

Yes

Overflow History

CSO Facility - 16 events

Pump Station Name:

Park Ave Pump Station AKA Circle Ave

Location:

Block & Lot Number

Address

Circle Ave Larchmont, N.Y. 10538

Nearest Cross Street

Park Ave

Sewer District

New Rochelle

Service Area

Larchmont

Watershed Area

N/A

Treatment Plant

New Rochelle Treatment Plant

Construction Date

1950's

Reconstruction Date

Rehabilitation Dates

2008

Design Capacity

1.31 MGD

Number of Pumps

2

Average Daily Flow

0.114 MGD

Force Main

10" diameter – 1,500 LF

Overflow Pipe Location

Long Island Sound

Emergency Power

Portable Emergency Generator

Overflow History

0 occurrences

Pump Station Name:

Playland Pump Station

Location:

Block & Lot Number

Address

Playland Park, Rye, N.Y.10580

Nearest Cross Street

Old Rye Brook Ave

Sewer District

Blind Brook

Service Area

Rye

Watershed Area

N/A

Treatment Plant

Blind Brook Treatment Plant

Construction Date

1960's

Reconstruction Date

Rehabilitation Dates

1999 Complete rehabilitation

Design Capacity

4.32 MGD

Number of Pumps

3

Average Daily Flow

0.347 MGD

Force Main

16" diameter – 1,549 LF and 18" diameter – 3,043 LF

Overflow Pipe Location

Long Island Sound

Emergency Power

Yes

Overflow History

0 occurrences

Pump Station Name:

Saxon Woods Pump Station

Location:

Block & Lot Number

Address

Saxon Wood Park Mamaroneck, N.Y. 10543

Nearest Cross Street

Mamaroneck Ave

Sewer District

Mamaroneck

Service Area

Mamaroneck

Watershed Area

N/A

Treatment Plant

Mamaroneck Treatment Plant

Construction Date

1967

Reconstruction Date

Rehabilitation Dates

2005 Complete Rehabilitation

Design Capacity

0.52 MGD

Number of Pumps

2

Average Daily Flow

0.049 MGD

Force Main

6" diameter – 2,574 LF

Overflow Pipe Location

N/A

Emergency Power

Yes

Overflow History

0 occurrences

Pump Station Name:

Sprain Lift Pump Station AKA Grassy Sprain Pump Station

Location:

Block & Lot Number

Address

Median Sprain Pkwy Hastings o Hudson, N.Y. 10706

Nearest Cross Street

Jackson Ave

Sewer District

Bronx Valley

Service Area

Hastings / Greenburgh

Watershed Area

Sprain Lake

Treatment Plant

Yonkers Joint Treatment Plant

Construction Date

1960's

Reconstruction Date

Rehabilitation Dates

2004 Complete Rehabilitation

Design Capacity

1.44 MGD

Number of Pumps

2

Average Daily Flow

0.097 MGD

Force Main

8" diameter – 1,530 LF

Overflow Pipe Location

N/A

Emergency Power

Yes

Overflow History

0 occurrences

Pump Station Name:

Sutton Manor Pump Station

Location:

Block & Lot Number

Address

Sutton Manor Road New Rochelle, N.Y.10801

Nearest Cross Street

Decatur Road

Sewer District

New Rochelle

Service Area

New Rochelle

Watershed Area

N/A

Treatment Plant

New Rochelle Treatment Plant

Construction Date

1958

Reconstruction Date

Rehabilitation Dates

2005 Complete rehabilitation

Design Capacity

0.52 MGD

Number of Pumps

2

Average Daily Flow

0.029 MGD

Force Main

6" diameter – 930 LF

Overflow Pipe Location

Echo Bay

Emergency Power

Yes

Overflow History

0 occurrences

Pump Station Name:

Tarrytown Pump Station

Location:

Block & Lot Number

Address

7 Depot Plaza Tarrytown, N.Y. 10591

Nearest Cross Street

West Franklin Street

Sewer District

Sawmill

Service Area

Tarrytown

Watershed Area

N/A

Treatment Plant

Yonkers Joint Treatment Plant

Construction Date

1976

Reconstruction Date

Rehabilitation Dates

1997 Complete Rehabilitation
New NYSDEC Consent Order rehabilitation design complete
Under construction 2017

Design Capacity

26.0 MGD

Number of Pumps

4

Average Daily Flow

2.4 MGD Estimated

Force Main

30" diameter – 14,540 LF

Overflow Pipe Location

Hudson River

Emergency Power

Yes

Overflow History

0 occurrence

Pump Station Name:

Water Street Pump Station

Location:

Block & Lot Number

Address

North Water Street Peekskill, N.Y. 10566

Nearest Cross Street

Central Ave

Sewer District

Peekskill

Service Area

Peekskill

Watershed Area

N/A

Treatment Plant

Peekskill Treatment Plant

Construction Date

1950's

Reconstruction Date

1980

Rehabilitation Dates

1998-9

Complete rehabilitation

Design Capacity

10.15 MGD

Number of Pumps

3

Average Daily Flow

2.391 MGD

Force Main

12", 16", 20" diameter (3 parallel lines) – 5,100 LF

Overflow Pipe Location

Hudson River

Emergency Power

Yes

Overflow History

0 occurrences

Pump Station Name:

Weaver Street Pump Station

Location:

Block & Lot Number

Address Palmer Ave Mamaroneck, N.Y. 10538

Nearest Cross Street Burton Road

Sewer District Mamaroneck

Service Area Mamaroneck

Watershed Area N/A

Treatment Plant Mamaroneck Treatment Plant

Construction Date 1950's

Reconstruction Date

Rehabilitation Dates 1996 Complete rehabilitation

Design Capacity 4.32 MGD

Number of Pumps 2

Average Daily Flow 0.293 MGD

Force Main 8" diameter – 817 LF

Overflow Pipe Location N/A

Emergency Power Yes

Overflow History 0 occurrences

Pump Station Name:

West Basin Pump Station

Location:

Block & Lot Number

Address

Boston Post Road and Orienta Ave. Mamaroneck, N.Y.10543

Nearest Cross Street

Orienta Ave

Sewer District

Mamaroneck

Service Area

Mamaroneck

Watershed Area

N/A

Treatment Plant

Mamaroneck Treatment Plant

Construction Date

1980's

Reconstruction Date

1993 New pumps, new rehabilitation design complete,
Under Construction in 2017

Rehabilitation Dates

Design Capacity

5.80 MGD

Number of Pumps

5

Average Daily Flow

1.034 MGD

Force Main

16" diameter – 2,156 LF

Overflow Pipe Location

Long Island Sound

Emergency Power

Yes Via Mamaroneck WWTP

Overflow History

0 occurrences

Pump Station Name:

Woodbine Ave Pump Station

Location:

Block & Lot Number

Address

Woodbine Ave Larchmont, N.Y. 10538

Nearest Cross Street

Monroe Ave

Sewer District

New Rochelle

Service Area

Larchmont

Watershed Area

N/A

Treatment Plant

New Rochelle Treatment Plant

Construction Date

1950's

Reconstruction Date

2012

Rehabilitation Dates

Complete rehabilitation 2012

Design Capacity

1.44 MGD

Number of Pumps

2

Average Daily Flow

0.092 MGD

Force Main

6" – 30 LF, 8" – 220 LF, 10" – 410 LF and 12" – 440 LF

Overflow Pipe Location

N/A

Emergency Power

Yes

Overflow History

0 occurrences

APPENDIX A-6:
List of Heavy Equipment

2017 DEF Outside Maintenance & Pump Station Equipment Inventory

Fleet #	Description	Type	Location	License Plate	Age (years)	Mileage	Run time (hours)	Replacement year
5649	6" Godwin Pump	Pump (Diesel)	NYPS	L41586		-	755.5	
156660	500 Gallon Fuel Boy	Fuel Boy	NYPS	M44392		-	27992 (gallons)	
580360	500 Gallon Fuel Boy	Fuel Boy	NYPS	R42129		-	2353 (gallons)	
	15kw Gen. (Beaver Brook)	Generator	NYPS	-	2013	-	1	
	8" Godwin Pump	Pump (Diesel)	NYPS			-		
	12" Baker Pump	Pump (Diesel)	NYPS			-		
5045	1982 Ford Backhoe 555	Excavation	Rye Maint	AH4481	35	-	10,095	2018
5662	3500w Portable Generator	Generator	Rye Maint	-		-		
65660	2006 Garden Trailer	Trailer	Rye Maint	AH5569	11	-	-	
90560	2006 Sterling Jetter	Jet/Vac Truck	Rye Maint	AH4768	11	18,961	-	2020
96160	2006 Ford Dump	Dump Truck	Rye Maint	AH4984	11	21,157	-	
96260	2006 Ford Dump	Dump Truck	Rye Maint	AH5721	11	7,682	-	
113760	8.0kw Light Tower	Light Tower	Rye Maint	-	2009	-	1132.6	
124560	185kw Portable Generator	Generator	Rye Maint	AH4990	2006	-	1,850.42	
172560	2008 Mack Dump	Dump Truck	Rye Maint	AH4584	9	6,970	-	
191260	2009 Ford Rack Body	Rack Body	Rye Maint	AH4647	8	25,332	-	
195860	2009 Ford Pumper Truck	Tank Truck	Rye Maint	AH4663	8	12,673	-	
540860	2012 Bob-Cat	Skidsteer	Rye Maint	-	5	-	188.5	
544260	2013 Utility Trailer (BC)	Trailer	Rye Maint	AH4795	4	-	-	
568160	2000w Portable Generator	Generator	Rye Maint	-		-		
4317	3500w Portable Generator	Generator	Yorktown	-		-		
4554	1995 Mack Tractor	Tractor	Yorktown	AH4461	22	115,754	-	do not replace
4689	1996 Mack Tractor	Tractor	Yorktown	AH6049	21	109,473	-	2019
4721	1996 Presvac Tanker	Tanker	Yorktown	AV2648	21	-	-	2019
5398	1999 Mack Dump	Dump Truck	Yorktown	AH5404	18	21,730	-	2021
5908	190kw Portable Generator	Generator	Yorktown	AH4476	1999	-	1,479.00	2022
75760	2006 Mack Garbage	Garbage Truck	Yorktown	AH5580	11	114,513	-	
76460	2006 Ehrbar Trailer	Trailer	Yorktown	AH5581	11	-	-	
79160	2006 GMC Dump	Dump Truck	Yorktown	AH5657	11	46,043	-	
88260	2006 Mack Jet Vac	Jet/Vac Truck	Yorktown	AH5434	11	17,217	-	
111560	2007 JCB Backhoe	Excavation	Yorktown	AH4950	10	-	365.1	
124460	250kw Portable Generator	Generator	Yorktown	AH4991	2006	-	212	
129460	2008 Mack Tractor	Tractor	Yorktown	AH5761	9	16,617	-	
131460	2008 Cusco Trailer	Trailer	Yorktown	AH5700	9	-	-	

2017 DEF Outside Maintenance & Pump Station Equipment Inventory

Fleet #	Description	Type	Location	License Plate	Age (years)	Mileage	Run time (hours)	Replacement year
174960	7.5kw Light Tower	Light Tower	Yorktown	-	2009	-	739.2	
176560	2010 Mack Tractor	Tractor	Yorktown	AH4577	7	24,951	-	
179960	2009 Presvac Tanker	Tanker	Yorktown	AH4651	8	-	-	
204360	2009 Ford Pumper Truck	Tank Truck	Yorktown	AH4688	8	20,715	-	
647960	2015 Freight Liner Garbage	Garbage Truck	Yorktown	AW4221	2	61,590	-	

APPENDIX A-7:
Collection System Trouble Spots

Collection System Inventory of Trouble Spots and Schedule for Priority Cleaning

Location	GIS ID Number	Description of problem	Schedule
River St., Hastings	SL5166-SL5172	Grease Accumulation	Monthly
Dayton Lane, Peekskill	SL5486-SL5489	Roots, Grease Accumulation	Annual
Hutchinson High Level, Scarsdale, New Rochelle	SL2236-SL2263	Debris accumulation	Annual
Kinderogan Sewer, Mt. Pleasant	SL5408-SL5432	Debris accumulation	Annual
Wells Ave, Yonkers	SL5090	Debris accumulation	As needed
Brookdale Pl., Rye	SL5257	Debris accumulation	Annual

APPENDIX A-8:
Collection System Cleaning and Inspection
Summary

2017 Collection System Cleaning and CCTV Inspection Summary

Sanitary Sewer District	Length	Work Done	Performed By
New Rochelle	449 LF	Cleaning & Inspection	WCDEF
Mamaroneck	536 LF	Cleaning & Inspection	WCDEF
Hutchinson	38 LF	Cleaning & Inspection	WCDEF
Blind Brook	3,500 LF	Cleaning & Inspection	Contractor
Blind Brook	4,768 LF	Cleaning & Inspection	WCDEF
TOTAL CLEANED	9,291 LF	Cleaned	
TOTAL INSPECTED	9,291 LF	Inspected	

APPENDIX A-9:
Collection System Operating and Maintenance
Expenses

Operating and Maintenance Expenses for the Westchester County Collection System			
	2016 Actual	2017 Actual	2018 Adopted
# of Employees	67	67	67
Salaries	\$3,621,961	\$3,478,295	\$3,751,562
Overtime	\$427,263	\$410,640	\$500,000
Equipment and supplies	\$369,207	\$295,420	\$314,600
Utilities	\$1,191,735	\$1,473,474	\$1,701,600
Contracted Services	\$927,763	\$919,636	\$1,282,598
Indirect costs	\$365,702	\$325,450	\$261,725
Total	\$6,903,631	\$6,902,915	\$7,812,086

APPENDIX A-10:
Current Open Capital Projects

Current Open Capital Projects

Capital Project #	Capital Project Name	Total Estimated Project Cost	Comments
SW005	Post Storm Infrastructure Reconstruction and Rehabilitation	\$3,850,000	North Yonkers PS
SW006	Vulnerability Assessment Studies	\$900,000	Includes Pumping Stations
SW007	Aerial Photos and Digital Mapping	\$800,000	Includes Pumping Stations
SW010	Asset Management Program for DEF Facilities	\$2,250,000	Department Wide Study
SW011	Rehabilitation of the Yorktown Maintenance Facility	\$5, 050,000	Maintenance Division Operations Base
SW013	Energy Management Program for DEF Facilities	\$850,000	Pilot for all facilities
SW014	Regulatory Compliance Studies	\$500,000	
SW015	Pumping Station Alarm Notification System Upgrades	\$400,000	
SW020	Forcemain Replacement – Various Districts	\$1,020,000	
SW022	Sewer District Heavy Equipment Replacement	\$3,700,000	Truck with CCTV camera
SW070	Flow Monitoring Program	\$11,100,000	Detect excessive I&I
SBB85	Sewer System Rehabilitation – Blind Brook Sanitary Sewer District	\$7,900,000	Playland Sewer Relocation

Capital Project #	Capital Project Name	Total Estimated Project Cost	Comments
SBV20	Forcemain Rehabilitation Bronx Valley Sewer District	\$2,300,000	Sprain Lift PS FM
SBV75	Pumping Station Rehabilitation – Bronx Valley SSD	\$4,360,000	Multiple Pumping Stations
SM075	Pumping Station Rehabilitation Program Mamaroneck Sanitary Sewer District	\$20,990,000	Multiple Pumping Stations
SM085	Sewer System Rehabilitation Mamaroneck Sanitary Sewer District	\$7,000,000	CMOM Phases I & II
SM095	Pumping Station Rehabilitation Program Mamaroneck Sanitary Sewer District	\$9,150,000	Multiple Pumping Stations
SNR20	Mamaroneck/New Rochelle Twin Sludge Forcemain	\$8,500,000	
SNR85	Sewer System Rehabilitation New Rochelle Sanitary Sewer District	\$33,000,000	Drake Ave & Hudson Park Siphon
SPS05	North Yonkers Pumping Station Upgrades	\$16,100,000	
SPS07	Repair and Upgrade of Alexander Street Influent Structure	\$4,550,000	at NYPS
SPS08	North Yonkers Pump Station 54" Main Surge Chamber	\$3,500,000	
SPS37	North Yonkers Pump Station - Bulkhead Rehabilitation	\$1,800,000	
SNY20	Relocation of Hastings Force Main, North Yonkers Sewer District	\$625,000	
SNY95	Pumping Station Rehabilitation Program - North Yonkers SSD	\$8,900,000	Multiple Pumping Stations

Capital Project #	Capital Project Name	Total Estimated Project Cost	Comments
SOS85	Sewer System Rehabilitation - Ossining Sanitary Sewer District	\$2,750,000	Snowden Ave Sewer & Siphon
SOS95	Pumping Station Rehabilitation Program - Ossining SSD	\$11,350,000	Multiple Pumping Stations
SPK20	Forcemain Rehabilitation – Peekskill Sewer District	\$9,400,000	Water St PS FM
SPK85	Sewer System Rehabilitation - Peekskill Sanitary Sewer District	\$1,050,000	CMOM Phase III
SSM20	Forcemain Rehabilitation - Saw Mill River District	\$5,200,000	Mt. Kisco FM
SSM74	Pumping Station Rehabilitation Program - Saw Mill Sanitary Sewer District	\$15,750,000	Multiple Pumping Stations
SY020	Tarrytown Forcemain Replacement	\$14,800,000	
SY075	Pumping Station Rehabilitation Program Saw Mill Sanitary Sewer District	\$6,000,000	Multiple Pumping Stations
SY085	Sewer System Rehabilitation - Yonkers Jt. Plant Districts	\$31,300,000	12 CMOM projects
SY095	Pumping Station Rehabilitation Program - South Yonkers SSD	\$4,500,000	Multiple Pumping Stations

The first part of the paper discusses the importance of maintaining accurate records of all transactions. This is essential for ensuring the integrity of the financial system and for providing a clear audit trail. The second part of the paper focuses on the role of the auditor in verifying the accuracy of the records. The auditor must ensure that all transactions are properly recorded and that the records are consistent with the underlying business transactions. The third part of the paper discusses the importance of maintaining accurate records of all transactions. This is essential for ensuring the integrity of the financial system and for providing a clear audit trail. The fourth part of the paper focuses on the role of the auditor in verifying the accuracy of the records. The auditor must ensure that all transactions are properly recorded and that the records are consistent with the underlying business transactions.